

Title (en)  
TWO-PART COUPLING STRUCTURE HAVING COOPERATING PARTS EFFECTING FLUID FLOW UPON CONNECTION AND MUTUAL RESEALING UPON DISCONNECTION

Title (de)  
ZWEITEILIGE VERBINDUNGSKONSTRUKTION MIT ZUSAMMENARBEITENDEN TEILEN, WELCHE BEI VERBINDUNG DEN DURCHFLUSS UND BEI TRENNUNG DIE ABDICHTUNG ERMÖGLICHEN

Title (fr)  
STRUCTURE DE RACCORDEMENT A DEUX PARTIES, LESQUELLES COOPERENT POUR LAISSER PASSER LE FLUIDE LORS DE LEUR RACCORDEMENT ET POUR EN ARRETER L'ECOULEMENT LORS DE LEUR SEPARATION

Publication  
**EP 0767882 A4 20000802 (EN)**

Application  
**EP 95919755 A 19950509**

Priority  
• US 9505719 W 19950509  
• US 24097894 A 19940510

Abstract (en)  
[origin: WO9530856A1] A two-part coupling structure (20, 22) includes a male coupling part (22) and a female coupling part (20) which are mutually engageable to open fluid communication between a fluid-storage vessel (18) and a conduit (16). The coupling parts are disengageable from one another to discontinue fluid communication between the vessel and the conduit, and also to close communication between ambient and each of the vessel and conduit. The retention volume of fluid which is trapped between the connected male and female coupling parts and which is exposed to or lost to ambient when the coupling parts are disconnected is very small. Because of particular structural features, the coupling parts will function reliably even with fluid having chunks or particulates of non-fluid material therein.

IPC 1-7  
**F16L 37/28**

IPC 8 full level  
**F16L 37/42** (2006.01); **F16L 37/12** (2006.01); **F16L 37/28** (2006.01); **F16L 41/16** (2006.01)

CPC (source: EP KR US)  
**B67D 7/0288** (2013.01 - EP US); **F16L 37/28** (2013.01 - EP KR US); **F16L 41/16** (2013.01 - EP US); **Y10T 137/87957** (2015.04 - EP US)

Citation (search report)  
• [A] WO 8301605 A1 19830511 - LIQUI BOX CORP [US]  
• [AD] US 4375864 A 19830308 - SAVAGE CHESTER  
• [AD] US 4445551 A 19840501 - BOND CURTIS J [US], et al  
• See references of WO 9530856A1

Cited by  
DE102021106353A1; WO2022194318A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9530856 A1 19951116**; AT E232274 T1 20030215; AU 2544395 A 19951129; AU 678906 B2 19970612; CA 2189450 A1 19951116; DE 69529566 D1 20030313; DE 69529566 T2 20031127; EP 0767882 A1 19970416; EP 0767882 A4 20000802; EP 0767882 B1 20030205; ES 2188662 T3 20030701; IL 113669 A0 19950831; IL 113669 A 19980405; JP H09512892 A 19971222; KR 100377054 B1 20030827; KR 970702977 A 19970610; NZ 285899 A 19970922; TW 334501 B 19980621; US 5467806 A 19951121; US 5609195 A 19970311

DOCDB simple family (application)  
**US 9505719 W 19950509**; AT 95919755 T 19950509; AU 2544395 A 19950509; CA 2189450 A 19950509; DE 69529566 T 19950509; EP 95919755 A 19950509; ES 95919755 T 19950509; IL 11366995 A 19950509; JP 52915695 A 19950509; KR 19960706347 A 19961109; NZ 28589995 A 19950509; TW 84104584 A 19950509; US 24097894 A 19940510; US 49929195 A 19950707